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- 1 11. The method of surveillance of claim 1, wherein the materials are collected in a  
2 predetermined pattern, and brought to a central location.
- 1 12. The method of surveillance of claim 1, wherein assaying for the presence of a chemical,  
2 biological, or radiological agent comprises comparing a level of chemical, biological or  
3 radiological agent to a normal level of a chemical, biological or radiological agent.
- 1 13. The method of surveillance of claim 12, wherein the normal level of a chemical,  
2 biological or radiological agent comprises background noise.
- 1 14. The method of surveillance of claim 12, wherein the normal level of a chemical,  
2 biological or radiological agent is ascertained from a second sample domain.
- 1 15. The method of surveillance of claim 1, wherein assaying for the presence of a chemical,  
2 biological, or radiological agent comprises detecting an increase in a level of chemical,  
3 biological or radiological agent relative to an earlier assay.
- 1 16. The method of surveillance of claim 1, wherein assaying for the presence of a chemical,  
2 biological, or radiological agent comprises detecting a decrease in a level of chemical,  
3 biological or radiological agent relative to an earlier assay.
- 1 17. The method of surveillance of claim 1, wherein assaying for the presence of a chemical,  
2 biological, or radiological agent comprises introducing *Tetrahymena pyriformis* to the  
3 sample.
- 1 18. The method of surveillance of claim 17, wherein the sample is assayed for *Bacillus*  
2 *anthracis*.

- 1 19. The method of surveillance of claim 17, wherein the sample is assayed for *Bacillus*  
2 *thuringiensis*.
- 1 20. The method of surveillance of claim 1, wherein the sample is assayed for *Bacillus*  
2 *thuringiensis*.
- 1 21. The method of surveillance of claim 20, wherein the *Bacillus thuringiensis* is UV-  
2 resistant.
- 1 22. The method of surveillance of claim 1, wherein collection integrity is preserved.
- 1 23. The method of surveillance of claim 1, comprising obtaining and assaying a sample from  
2 within a collection bin.
- 1 24. The method of claim 23, comprising placing an assaying device in communication with  
2 the collection bin.
- 1 25. A method of surveillance, which method comprises: isolating a sample, which sample  
2 comprises debris or fluids that result from rinsing an instrumentality used in a collection  
3 of materials from a sample domain, and assaying the sample for the presence of a  
4 chemical, biological, or radiological agent.
- 1 26. A method of surveillance, which method comprises: ✓
- 2 (a) isolating a sample from a sample domain, which sample comprises debris or fluids  
3 that result from rinsing an instrumentality used in the collection of materials from the  
4 sample domain, and wherein the sample domain comprises a collection of materials on a  
5 regular, systematic basis through a predetermined, traceable route, the predetermined  
6 traceable rout converging on a centralized location;
- 7 (b) assaying the sample for the presence of a chemical, biological, or radiological agent  
8 using PCR technology, radiation detector technology, spectrometry technology, or  
9 radioimmunoassay technology;
- 10 (c) determining a result based on the assay; and



- 1 35. The method for determining the presence of a *Bacillus* spore of claim 34, wherein the first  
2 membrane and/or the second membrane is at a temperature effective to kill vegetative  
3 bacteria.
- 1 36. The method for determining the presence of a *Bacillus* spore of claim 35, wherein the  
2 temperature effective to kill the vegetative bacteria is about 70 °C to about 80 °C.